

DDDDDDDDDDDDDD	CCCCCCCCCCCC	LLL
DDDDDDDDDDDDDD	CCCCCCCCCCCC	LLL
DDDDDDDDDDDDDD	CCCCCCCCCCCC	LLL
DDD DDD CCC	CCCCCCCCCCCC	LLL
DDD DDD CCC	CCCCCCCCCCCC	LLL
DDD DDD CCC	CCCCCCCCCCCC	LLL
DDD DDD CCC	CCCCCCCCCCCC	LLL
DDD DDD CCC	CCCCCCCCCCCC	LLL
DDD DDD CCC	CCCCCCCCCCCC	LLL
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DDD DDD CCC	CCCCCCCCCCCC	LLL
DDD DDD CCC	CCCCCCCCCCCC	LLL
DDD DDD CCC	CCCCCCCCCCCC	LLL
DDD DDD CCC	CCCCCCCCCCCC	LLL
DDD DDD CCC	CCCCCCCCCCCC	LLL
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DDD DDD CCC	CCCCCCCCCCCC	LLL
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M 6

FILE ID **RPSUB

RRRRRRRRR RRRRRRRRR P PPPPPP PPPPPP SSSSSSSS SSSSSSSS UU UU BBBBBBBB BBBBBBBB
RR RR RR PP PP SS SS UU UU BB BB B B
RR RR RR PP PP SS SS UU UU BB BB B B
RR RR PP PP SS SS UU UU BB BB B B
RR RR PP PP SS SS UU UU BB BB B B
RRRRRRRRR P PPPPPP PPPPPP SSSSSS SSSSSS UU UU BBBBBBBB BBBBBBBB
RRRRRRRRR P PPPPPP PPPPPP SSSSSS SSSSSS UU UU BBBBBBBB BBBBBBBB
RR RR PP SS UU UU BB BB B B
RR RR PP SS UU UU BB BB B B
RR RR PP SS UU UU BB BB B B
RR RR PP SS UU UU BB BB B B
RR RR PP SSSSSSSS UUUUUUUUUU BBBBBBBB BBBBBBBB
RR RR PP SSSSSSSS UUUUUUUUUU BBBBBBBB BBBBBBBB

(2)	54	DECLARATIONS
(3)	77	GET QUALIFIER DESCRIPTOR BLOCK
(4)	138	FIND COMMAND QUALIFIER
(5)	203	EXTRACT RESULT DESCRIPTOR FIELDS
(6)	265	SET RESULT DESCRIPTOR ADDRESS
(7)	296	GET PARAMETER
(8)	345	RESULT PARSE INIT

0000 1 .TITLE RPSUB - DCL RESULT PARSE SUBROUTINES
0000 2 .IDENT 'V04-000'
0000 3
0000 4
0000 5 *****
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0000 26 *****
0000 27
0000 28
0000 29 **
0000 30 FACILITY: STARLET DCL CLI
0000 31
0000 32 ABSTRACT: MISC SUBROUTINES
0000 33
0000 34
0000 35 ENVIRONMENT: NATIVE MODE USER CODE
0000 36
0000 37 AUTHOR: W.H.BROWN, CREATION DATE:14-APR-77
0000 38
0000 39 MODIFIED BY:
0000 40
0000 41 V03-003 PCG0003 Peter George 15-Feb-1983
0000 42 Update to new structure level.
0000 43 Handle larger PTR data structure.
0000 44 Move DCLS\$CNVASCBIN to CONVERT.
0000 45
0000 46 V03-002 PCG0002 Peter George 14-Nov-1982
0000 47 Call DCLSTRIM to process the numeric string
0000 48 before converting it to an integer.
0000 49
0000 50 V03-001 PCG0001 Peter George 30-Sep-1982
0000 51 Use new larger PTR data structure.
0000 52 ;--

0000 54 .SBTTL DECLARATIONS
0000 55 :
0000 56 : MACRO LIBRARY CALLS
0000 57 :
0000 58 :
0000 59 PRCDEF : DEFINE PROCESS WORK AREA
0000 60 WRKDEF : DEFINE COMMAND WORK AREA
0000 61 \$SCLITABDEF : DEFINE TABLE STRUCTURE
0000 62 PTRDEF : DEFINE RESULT PARSE DESCRIPTOR
0000 63 RPWDEF : RESULT PARSE WORK DEFINITIONS
0000 64 PLMDEF : PARAMETER LIMIT DEFINITIONS
0000 65 \$CLIDEF : CLI DEFINITIONS
0000 66 \$CLIMSGDEF : CLI MESSAGE DEFINITIONS
0000 67 :
0000 68 :
0000 69 : OWN STORAGE:
0000 70 :
0000 71 :
00000000 72 .PSECT DCLSZCODE BYTE, RD, NOWRT
0000 73 :

0000 75
 0000 76 :DSABL LSB
 0000 77 :SBTTL GET QUALIFIER DESCRIPTOR BLOCK
 0000 78 ++
 0000 79 FUNCTIONAL DESCRIPTION:
 0000 80
 0000 81 THIS ROUTINE IS CALLED TO LOCATE THE COMMAND QUALIFIER
 0000 82 DESCRIPTOR BLOCK FOR A SPECIFIC QUALIFIER.
 0000 83 ALTERNATE ENTRY TO CHECK THAT QUALIFIER IS A PARAMETER
 0000 84 QUALIFIER AS OPPOSED TO AN OUTPUT SPECIFIER.
 0000 85
 0000 86 CALLING SEQUENCE:
 0000 87
 0000 88 BSB/JSB DCLSGETQUALDESC : GET QUALIFIER DESCRIPTOR
 0000 89 BSB/JSB DCLSGETPARMQUAL : GET PARAMETER QUALIFIER DESCRIPTOR
 0000 90
 0000 91 INPUT PARAMETERS:
 0000 92
 0000 93 R1 IS THE CODE TO IDENTIFY THE QUALIFIER
 0000 94
 0000 95 IMPLICIT INPUTS:
 0000 96
 0000 97 R8 = ADDRESS OF UTILITY BIT ARRAY
 0000 98 R9 = ADDRESS OF REQUEST DESCRIPTOR
 0000 99 R10 = ADDRESS OF WORK BLOCK
 0000 100 R11 = ADDRESS OF PASS 1 PARSE WORK AREA
 0000 101
 0000 102 OUTPUT PARAMETERS:
 0000 103
 0000 104 R2 IS THE ADDRESS OF THE QUALIFIER DESCRIPTOR BLOCK
 0000 105
 0000 106 COMPLETION CODES:
 0000 107
 0000 108 R0 = SUCCESS/FAIL DEPENDING OF WHETHER THE DESCRIPTOR WAS FOUND
 0000 109
 0000 110 SIDE EFFECTS:
 0000 111
 0000 112 TOP LEVEL RETURN (RET) TAKEN IF SEARCH FAILS
 0000 113
 0000 114 --
 0000 115
 0000 116 .ENABL LSB
 0000 117
 0000 118 DCLSGETPARMQUAL:: : GET A PARAMETER QUALIFIER DESCRIPTOR
 0000 119 DCLSGETQUALDESC:: : FIND A QUALIFIER DESCRIPTOR
 50 51 D0 0000 120 MOVL R1, R0 : COPY QUALIFIER NUMBER
 52 CA AB D0 0005 121 BEQL 90\$: ZERO IS INVALID QUALIFIER NUMBER
 19 13 0003 122 MOVL WRK_L_QUABLK(R11), R2 : POINT AT START OF QUALIFIER BLOCKS
 13 13 0009 123 BEQL 90\$: BR IF NONE
 08 08 11 000B 124 BRB 20\$: START OF SEARCH
 08 A2 D5 000D 125 10\$. TSTL ENT_L_NEXT(R2) : TEST OFFSET TO NEXT
 0C 13 0010 126 BEQL 90\$: BR IF THIS IS LAST
 08 A2 C1 0012 127 ADDL3 ENT_L_NEXT(R2), - : FIND ADDRESS OF NEXT ENT BLOCK
 52 DE AB 0015 128 WRK_L_TAB_VEC(R11), R2 : COUNT DOWN QUALIFIER NUMBER
 F2 50 FS 0018 129 20\$: SOBGTR R0, T0\$: INDICATE DESCRIPTOR FOUND
 50 D6 001B 130 INCL R0 : BACK TO THE CALLER
 05 001D 131 RSB

RPSUB
V04-000

- DCL RESULT PARSE SUBROUTINES
GET QUALIFIER DESCRIPTOR BLOCK

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001E 132
001E 133 90\$: SETSTAT INVQUALNUM
04 0023 134 RET ; SET ERROR-INVALID QUALIFER NUMBER
0024 135 ; GO BACK TO DISPATCHER
0024 136 .DSABL LSB

0024 138 .SBTTL FIND COMMAND QUALIFIER
 0024 139 ++
 0024 140 FUNCTIONAL DESCRIPTION:
 0024 141
 0024 142 THIS COROUTINE IS CALLED TO SEARCH FOR A
 0024 143 COMMAND QUALIFIER IN THE RANGE OF THE CURRENT COMMAND.
 0024 144 THE SEARCH IS DONE OUT TO THE FIRST PARAMETER APPEARING
 0024 145 IN THE COMMAND, THEN FROM THE START OF THE FIRST PARAMETER
 0024 146 IN THE RANGE OF THE CURRENT COMMAND TO THE END OF THE
 0024 147 RANGE OF THE CURRENT COMMAND.

0024 148 CALLING SEQUENCE:

0024 149 BSB/JSB DCL\$LOCCMDQUAL

0024 150 INPUT PARAMETERS:

0024 151 R1 IS THE CODE OF THE QUALIFIER TO LOCATE

0024 152 IMPLICIT INPUTS:

0024 153 R8 = ADDRESS OF UTILITY BIT ARRAY
 0024 154 R9 = ADDRESS OF REQUEST DESCRIPTOR
 0024 155 R10 = ADDRESS OF WORK BLOCK
 0024 156 R11 = ADDRESS OF PASS 1 PARSE WORK AREA

0024 157 OUTPUT PARAMETERS:

0024 158 R4 IS RETURNED AS THE ADDRESS OF THE DESCRIPTOR IF FOUND
 0024 159 R5 IS THE INDEX TO THE DESCRIPTOR IF FOUND

0024 160 COMPLETION CODES:

0024 161 R0 IS SET TRUE OR FALSE DEPENDING OF SUCCESS OF SEARCH

0024 162 SIDE EFFECTS:

0024 163 REGISTERS R4, R5 & R6 ARE USED BY THIS ROUTINE
 0024 164 AND MUST BE PRESERVED ACCROSS COROUTINE RETURNS.

0024 165 :--

0024 166 DCLSFNDCMDQUAL::

: LOCATE THE COMMAND QUALIFIER
 : SET INDEX TO START SEARCH
 : START OF PARAMETER LIMIT DESCRIPTORS
 : ASSUME NO MORE QUALIFIERS
 : THIS DESCRIPTOR IN RANGE OF VERB
 : BR IF YES
 : BR IF WITHIN A PARAMETER
 : SET INDEX OF PLACE TO START LOOKING
 : BR WHEN DONE
 : IS THIS WITHIN THE CURRENT PARAMETER?
 : BR IF OUT OF RANGE OF THIS PARAMETER
 : SET ADDRESS OF RESULT DESCRIPTOR
 : VIELD LIMITS FOR TYPE
 : PTR_V_TYPE, #PTR_S_TYPE, -
 : PTR_E_DESCR(R4), #PTR_K_CMDQUAL ; IF THIS A COMMAND QUALIFIER?
 : BR IF NO-CONTINUE SEARCH

56	55	01	00	0024	180
40	AA	DE	DE	0024	181
	50	D4	0027	181	MOVL #1,R5
08	AA	91	0028	182	MOVAL RPW_G_PRMLIM(R10),R6
	OE	1F	003D	183	10\$: CLR R0
55	01	A6	0031	184	CMPB R5,RPW_B_STRPARM(R10)
	06	12	0033	185	BLSSU 40\$
55	01	A6	9A	0035	BNEQ 30\$
02	A6	1C	13	0039	20\$: MOVZBL PLM_B_FSTDESC(R6),R5
	55	91	003B	188	BEQL 70\$
	11	1A	003F	189	30\$: CMPB R5,PLM_B_LSTDESC(R6)
04	3E	10	0041	190	BGTRU 60\$
00	64	ED	0043	191	40\$: BSBB DCLSSETDESCADR
	04	12	0046	192	CMPZV #PTR_V_TYPE, #PTR_S_TYPE, -
				193	PTR_E_DESCR(R4), #PTR_K_CMDQUAL
				194	; IF THIS A COMMAND QUALIFIER?

				194	: BR IF NO-CONTINUE SEARCH
--	--	--	--	-----	----------------------------

50	D6	004A	195		INCL	R0	: SET SUCCESS
9E	16	004C	196		JSB	@(SP)+	: RETURN WITH QUALIFIER
55	D6	004E	197	50\$:	INCL	R5	: ADVANCE INDEX TO NEXT DESCRIPTOR
D9	11	0050	198		BRB	10\$: CHECK AGAIN
56	04	C0	0052	199	60\$:	ADDL	#PLM_K_SIZE,R6
DE	11	0055	200		BRB	20\$: SET TO NEXT PARAMETER LIMIT DESCRIPTOR
	05	0057	201	70\$:	RSB		: TRY NEXT PARAMETER
							: RETURN WITH VALUE OR ZERO

0058 203 .SBTTL EXTRACT RESULT DESCRIPTOR FIELDS
 0058 204 ++
 0058 205 FUNCTIONAL DESCRIPTION:
 0058 206 THIS ROUTINE IS CALLED TO TAKE A RESULT DESCRIPTOR APART
 0058 207 AND RETURN ITS COMPONENT PART AS INDIVIDUAL VALUES.
 0058 208
 0058 209
 0058 210 CALLING SEQUENCE:
 0058 211
 0058 212 BSB/JSB DCL\$EXTNXTDESC ; EXTRACT NEXT DESCRIPTOR
 0058 213 BSB/JSB DCLSGETEXTDESC ; GET AND EXTRACT DESCRIPTOR
 0058 214 BSB/JSB DCL\$EXTRSLDESC ; EXTRACT RESULT DESCRIPTOR
 0058 215
 0058 216 INPUT PARAMETERS:
 0058 217 AT EXTRSLDESC WITH R4 CONTAINS THE ADDRESS OF THE DESCRIPTOR
 0058 218 AT EXTNXTDESC WITH R6 CONTAINS THE ADDRESS OF THE PARAMETER
 0058 219 LIMIT DESCRIPTOR.
 0058 220
 0058 221
 0058 222 IMPLICIT INPUTS:
 0058 223
 0058 224 R8 = ADDRESS OF UTILITY BIT ARRAY
 0058 225 R9 = ADDRESS OF REQUEST DESCRIPTOR
 0058 226 R10 = ADDRESS OF WORK BLOCK
 0058 227 R11 = ADDRESS OF PASS 1 PARSE WORK AREA
 0058 228
 0058 229 OUTPUT PARAMETERS:
 0058 230
 0058 231 R1 = TYPE
 0058 232 R2 = SIZE OR VALUE DEPENDING ON THE DESCRIPTOR
 0058 233 R3 = ADDRESS OF THE ITEM
 0058 234 R4 = ADDRESS OF DESCRIPTOR
 0058 235
 0058 236 COMPLETION CODES:
 0058 237
 0058 238 R0 = SUCCESS/FAILURE DEPENDING ON RESULT OF SEARCH
 0058 239
 0058 240 --
 0058 241 .ENABL LSB
 0058 242
 0058 243 DCL\$EXTNXTDESC:: : EXTRACT NEXT COMPLETE DESCRIPTOR
 0058 244 SETSTAT FAIL : ASSUME WONT FIND ONE
 0058 245 MOVZBL PLM_B_NXTDESC(R6),R5 : SET POINTER TO DESCRIPTOR
 0058 246 BEQL 40\$: BR IF PARAMETER SET IS MISSING
 0058 247 CMPB R5,PLM_B_LSTDESC(R6) : IS THIS IN RANGE OF CURRENT PARAMETER?
 0058 248 BGTRU 40\$: BR IF NO
 0058 249 INCB PLM_B_NXTDESC(R6) : ADVANCE INDEX TO NEXT
 0058 250 INCL R0 : SET ANY SUCCESSFUL STATUS
 0058 251 DCLSGETEXTDESC:: : GET AND EXTRACT NEXT DESCRIPTOR
 0058 252 BSB8 DCLSSETDESCADR : SET ADDRESS OF RESULT DESCRIPTOR
 0058 253 DCL\$EXTRSLDESC:: : EXTRACT FOR RESULT DESCRIPTION
 0058 254 EXTZV #PTR_V_OFFSET,#PTR_S_OFFSET,- : START BIT AND SIZE OF OFFSET
 0058 255 PTR [DESCR(R4)] R3 : GET OFFSET INTO R3
 0058 256 MOVAB WRK_G_BUFFER(R11)[R3],R3 : FIND ADDRESS OF ITEM IN BUFFER
 0058 257 EXTZV #PTR_V_VALUE,#PTR_S_VALUE,- : START BIT AND SIZE OF VALUE
 0058 258 PTR [DESCR(R4)],R2 : GET VALUE INTO R2
 0058 259 EXTZV #PTR_V_TYPE,#PTR_S_TYPE,- : START BIT AND SIZE OF TYPE

55 66 9A 005A
 21 13 005D
 02 A6 55 91 005F
 1B 1A 0063
 66 96 0065
 50 D6 0067
 55 66 9A 0069
 16 10 0069
 0C 08 EF 006B
 53 64 006E
 53 F492 CB43 9E 0070
 08 00 EF 0076
 52 64 0079
 04 1C EF 007B

RPSUB
V04-000

- DCL RESULT PARSE SUBROUTINES
EXTRACT RESULT DESCRIPTOR FIELDS

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51 64 007E 260 PTR_L_DESCR(R4),R1 ; GET TYPE INTO R1
05 0080 261 40\$: RSB ;
0081 262 .DSABL LSB
0081 263

0081 265 .SBTTL SET RESULT DESCRIPTOR ADDRESS
0081 266 ::+
0081 267 : FUNCTIONAL DESCRIPTION:
0081 268 : THIS ROUTINE IS CALLED TO SET THE ADDRESS OF A RESULT
0081 269 : DESCRIPTOR INTO R4.
0081 270 :
0081 271 : CALLING SEQUENCE:
0081 272 :
0081 273 : BSB/JSB DCL\$SETDESCADR
0081 274 :
0081 275 :
0081 276 : INPUT PARAMETERS:
0081 277 :
0081 278 : R5 CONTAINS THE INDEX FOR THE DESIRED DESCRIPTOR
0081 279 :
0081 280 : IMPLICIT INPUTS:
0081 281 :
0081 282 : R10 = ADDRESS OF WORK BLOCK
0081 283 : R11 = ADDRESS OF PASS 1 PARSE WORK AREA
0081 284 :
0081 285 : OUTPUT PARAMETERS:
0081 286 :
0081 287 : R4 IS LOADED WITH THE ADDRESS OF THE DESCRIPTOR
0081 288 :
0081 289 :--
0081 290 :
0081 291 DCL\$SETDESCADR:::
0081 292 MULL3 #PTR_C_LENGTH,R5,R4 : GET BYTE OFFSET OF DESCRIPTOR
0081 293 MOVAB WRK_G_RESULT-PTR_C_LENGTH(R11)[R4],R4 : GET ADDRESS OF DESCRIPTOR
0081 294 RSB

54 55 0C C5
54 F9AA CB44 9E
05 0085 0088

008C 296 .SBTTL GET PARAMETER
 008C 297 :++
 008C 298 FUNCTIONAL DESCRIPTION:
 008C 299 THIS ROUTINE IS CALLED TO SEARCH THE RESULT DESCRIPTOR
 008C 300 BUFFER FOR THE NEXT OCCURANCE OF A PRARMETER
 008C 302 CALLING SEQUENCE:
 008C 304 BSB/JSB DCLSGETPARM ; GET A PARAMETER
 008C 306 INPUT PARAMETERS:
 008C 308 RS CONTAINS THE INDEX OF NEXT DESCRIPTOR TO CHECK
 008C 310 IMPLICIT INPUTS:
 008C 312 R8 = ADDRESS OF UTILITY BIT ARRAY
 008C 313 R9 = ADDRESS OF REQUEST DESCRIPTOR
 008C 314 R10 = ADDRESS OF WORK BLOCK
 008C 315 R11 = ADDRESS OF PASS 1 PARSE WORK AREA
 008C 317 OUTPUT PARAMETERS:
 008C 319 R1 CONTAINS THE TYPE OF THE DESCRIPTOR(IE:PTR_K_PARAMETR)
 008C 320 R2 CONTAINS THE SIZE OF THE PARAMETER
 008C 321 R3 CONTAINS THE PRECEEDING TERMINATOR
 008C 322 R4 CONTAINS THE ADDRESS OF THE PARAMETER DESCRIPTOR
 008C 323 R5 IS THE INDEX TO THE DESCRIPTOR
 008C 325 COMPLETION CODES:
 008C 327 R0 = SUCCESS/FAIL DEPENDING ON THE RESULT OF THE SEARCH
 008C 329
 008C 330 ;--
 008C 331
 008C 332 DCLSGETPARM:: : GET THE NEXT PARAMETER
 008C 333 SETSTAT FAIL : ASSUME NO MORE PARAMETERS
 008C 334 10\$: INCL R5 : ADVANCE INDEX
 53 04 F4 55 D6 008E 335 BSB8 DCLSGETTEXTDESC : GET DESCRIPTOR AND EXTRACT FIELDS
 04 18 D7 10 0090 336 EXTZV #PTR_V_TERM,#PTR_S_TERM,- : GET THE TERMINATOR FORM THE PRVIOUS
 04 08 A4 EF 0092 337 -PTR_C_LENGTH(R4),R3 : DESCRIPTOR AND SAVE IN R3
 03 03 51 91 0098 338 CMPB R1,#PTR_K_ENDLINE : IS THIS THE END OF LINE?
 EC 12 00A0 340 BEQL 30\$: NO MORE PARAMETERS
 05 00A2 00A2 341 CMPB R1,#PTR_K_PARAMETR : IS THE CURRENT A PARAMETER?
 00A5 342 BNEQ 10\$: BR IF NO-TRY NEXT
 30\$: SETSTAT SUCCESS : SET FOUND ONE
 343 RSB : RETURN TO CALLER

00A6 345 .SBTTL RESULT PARSE INIT
 00A6 346 ++
 00A6 347 FUNCTIONAL DESCRIPTION:
 00A6 348 THIS ROUTINE IS CALLED TO ESTABLISH INITIAL CONDITIONS
 00A6 349 IN THE RESULT PARSE WORK AREA PRIOR TO PERFORMAING
 00A6 350 A RESULT PARSE.
 00A6 351
 00A6 352 CALLING SEQUENCE:
 00A6 353 ENTERED VIA A CASE FOLLOWED BY A CALL
 00A6 354
 00A6 355 IMPLICIT INPUTS:
 00A6 356 R9 = ADDRESS OF REQUEST DESCRIPTOR
 00A6 357 R10 = ADDRESS OF WORK BLOCK
 00A6 358 R11 = ADDRESS OF PASS 1 PARSE WORK AREA
 00A6 359
 00A6 360
 00A6 361
 00A6 362
 00A6 363 OUTPUT PARAMETERS:
 00A6 364 THE RESULT PARSE WORK AREA IS INITED
 00A6 365
 00A6 366
 00A6 367 COMPLETION CODES:
 00A6 368 R0 = SUCCESS
 00A6 369
 00A6 370
 00A6 371
 00A6 372 --

<pre> 04 00 6A 62 10 00A6 373 DCLSINIT::: : RESULT APRSE INIT 04 AA 007C 8F 2C 00A8 374 BSBB DCL\$GETDCLWRK : GET POINTER TO DCL PHASE 1 WORK AREA 00 00 2C 00AC 375 MOVC5 #0,(R10),#0,- : SOURCE BUFFER SIZE AND FILL OF 0 TO 00 00 2C 00AC 376 "#CLISCI WORKAREA-4,4(R10) : ZERO OUT THE WORK AREA 00 00 2C 00AC 377 MOVL R11,RP0 L DCLWRK(R10) : SAVE WORK AREA ADDRESS FOR LATER 00 00 2C 00AC 378 MOVL WRK_L_POPTR(R11),R7 : GET ADDRESS OF COMMAND PROMPT TABLE 00 00 2C 00AC 379 MOVAL RPW_G_PRMLIM(R10),R6 : GET ADDRESS OF FIRST PARAM LIMIT TABLE 00 00 2C 00AC 380 CLRL R5 : INIT INDEX TO MINUS FIRST DESCRIPTOR 00 00 2C 00AC 381 BSBB DCL\$GETPARM : RETREIVE THE NEXT(FIRST)PARAMETER 00 00 2C 00AC 382 MOVB R5,RPW_B_STRPARM(R10) : SAVE THE INDEX TO THE FIRST PARAMETER 00 00 2C 00AC 383 BLBC R0,90\$: BR IF NO PARAMETERS IN COMMAND 01 A6 3A 50 E9 00C5 384 10\$: MOVB R5,PLM_B_FSTDESC(R6) : SET FIRST PARAMETER IN THIS LIST 01 A6 3A 50 E9 00C5 385 MOVB R5,PLM_B_NXTDESC(R6) : ALSO THE NEXT TO PROCESS 01 A6 3A 50 E9 00C5 386 20\$: BSBB DCL\$GETPARM : LOCATE THE NEXT PARAMETER IN THE COMD 02 A6 55 01 83 00D1 387 SUBB3 #1,R5,PLM_B_LSTDESC(R6) : SET INDEX OF THE LAST PARAMETER SEEN 02 A6 55 01 83 00D1 388 BLBC R0,90\$: BR IF NO MORE 01 29 50 E9 00D6 388 CMPB R3,#PTR_K_BLANK : IS THIS THE START OF A PARAMETER LIST? 01 53 91 00D9 389 BEQL 50\$: BR IF YES 01 53 91 00DC 390 BBS #ENT_V_IMPCAT,- : IF COMMAND HAS IMPLIED CONCATONATION 01 53 91 00DC 391 ENT @ FLAGS(R7),20\$: THEN KEEP LOOKING TILL END OF PARAMETER EC 04 A7 00E0 392 CMPB R3,#PTR_K_COMMAS : ELSE LOOK FOR PARAMETER LIST SEPARATOR 05 53 91 00E3 393 BNEQ 20\$: IF NO A SEPARATOR, CONTINUE SCAN 01 E7 12 00E6 394 40\$: CMPB R3,#PTR_K_BLANK : SCAN FOR LAST PARAMETER IN THE LIST 01 53 91 00E8 395 BEQL 50\$: BR IF FOUND LAST PARAMETER 01 07 13 00EB 396 BSBB DCL\$GETPARM : SEARCH FOR NEXT PARAMETER 10 9D 10 00ED 397 BLBC R0,90\$: BR IF RAN OUT OF PARAMETERS 10 50 E9 00EF 398 BRB 40\$: CHECK FOR BLANKS 10 F4 11 00F2 399 ADDL3 ENT_L_NEXT(R7),- : SKIP TO NEXT DESCRIPTOR 08 A7 C1 00F4 400 WRK_L_TAB_VEC(R11),R7 57 DE AB 00F7 401 </pre>	<pre> : RESULT APRSE INIT : GET POINTER TO DCL PHASE 1 WORK AREA : SOURCE BUFFER SIZE AND FILL OF 0 TO : ZERO OUT THE WORK AREA : SAVE WORK AREA ADDRESS FOR LATER : GET ADDRESS OF COMMAND PROMPT TABLE : GET ADDRESS OF FIRST PARAM LIMIT TABLE : INIT INDEX TO MINUS FIRST DESCRIPTOR : RETREIVE THE NEXT(FIRST)PARAMETER : SAVE THE INDEX TO THE FIRST PARAMETER : BR IF NO PARAMETERS IN COMMAND : SET FIRST PARAMETER IN THIS LIST : ALSO THE NEXT TO PROCESS : LOCATE THE NEXT PARAMETER IN THE COMD : SET INDEX OF THE LAST PARAMETER SEEN : BR IF NO MORE : IS THIS THE START OF A PARAMETER LIST? : BR IF YES : IF COMMAND HAS IMPLIED CONCATONATION : THEN KEEP LOOKING TILL END OF PARAMETER : ELSE LOOK FOR PARAMETER LIST SEPARATOR : IF NO A SEPARATOR, CONTINUE SCAN : SCAN FOR LAST PARAMETER IN THE LIST : BR IF FOUND LAST PARAMETER : SEARCH FOR NEXT PARAMETER : BR IF RAN OUT OF PARAMETERS : CHECK FOR BLANKS : SKIP TO NEXT DESCRIPTOR </pre>
---	---

03 A6 55 90 00FA 402 MOVBL R5,PLM_B_TRMDESC(R6) : SAVE DESCRIPTOR OF PARAMETER TERMINATOR
86 D5 00FE 403 TSTL (R6)+ : POINT AT NEXT PARAMETER LIMIT DESCRIPTOR
C6 11 0100 404 BRB 10\$: SCAN NEXT PARAMETER
03 A6 55 90 0102 405 90\$: SETSTAT SUCCESS
04 0105 406 MOVBL R5,PLM_B_TRMDESC(R6) : SET ALL IS GOOD
04 0109 407 RET : SAVE FINAL TERMINATOR
010A 408 :
010A 409 : SET WORK ADDRESS
010A 410 :
00000000'EF 010A 411 DCL\$GETDCLWRK:: :
5B 04 AB 16 010A 412 JSB CLISGET_PRC : GET ADDRESS OF CLI PROCESS WORK AREA
00 0110 413 MOVL PRC_L_SAVFP(R11),R11 : GET ADDRESS OF COMMAND WORK AREA
05 0114 414 RSB : RETURN TO CALLER
0115 415 .END

CLISC WORKAREA	= 00000080		PRC_L_OUTRABCTX	00000118
CLISGET PRC	***** X 02		PRC_L_PPFLIST	00000070
CLIS INQUALNUM	= 0003881A		PRC_L_RECALLPTR	0000012F
DCL\$EXTNXTDESC	00000058 RG 02		PRC_L_RESTART	00000058
DCL\$EXTRSLDESC	0000006B RG 02		PRC_L_SAVAP	00000000
DCL\$FNDCMDQUAL	00000024 RG 02		PRC_L_SAVFP	00000004
DCL\$GETDCLWRK	0000010A RG 02		PRC_L_SEVERITY	00000050
DCL\$GETEXTDESC	00000069 RG 02		PRC_L_SPWN	000000C0
DCL\$GETPARM	0000008C RG 02		PRC_L_STACKLM	000000A4
DCL\$GETPARMQUAL	00000000 RG 02		PRC_L_STACKPT	000000A0
DCL\$GETQUALDESC	00000000 RG 02		PRC_L_STATUS	00000054
DCL\$RPINIT	000000A6 RG 02		PRC_L_STS	00000084
DCL\$SETDESCADR	00000081 RG 02		PRC_L_STV	00000088
ENT_L_NEXT	= 00000008		PRC_L_SYMBOL	00000060
ENT_V_IMPCAT	= 00000007		PRC_L_TMBX	00000074
ENT_W_FLAGS	= 00000004		PRC_L_TRMLIST	00000010
PLM_B_FSTDESC	00000001		PRC_Q_ALLOCREG	00000020
PLM_B_LSTDESC	00000002		PRC_Q_COMMAND	000000E0
PLM_B_NXTDESC	00000000		PRC_Q_FLUSHTIME	000000D0
PLM_B_QUADESC	00000003		PRC_Q_GLOBAL	00000028
PLM_B_TRMDESC	00000003		PRC_Q_IMAGENAME	000000D8
PLM_C_SIZE	00000004		PRC_Q_KEYPAD	00000040
PLM_K_SIZE	00000004		PRC_Q_LABEL	00000030
PRC_B_CONTINUE	000000F3		PRC_Q_LOCAL	00000038
PRC_B_DEFRADIX	000000AE		PRC_Q_SAVEPRIV	000000E8
PRC_B_EXMDEPMOD	000000AD		PRC_T_OUTDVI	0000011C
PRC_B_EXMDEPWID	000000AC		PRC_W_ASTIOSB	000000C6
PRC_B_EXONLYL	0000012D		PRC_W_ASTRETN	000000C8
PRC_B_FLAGS2	000000AF		PRC_W_ASTSTATUS	000000C4
PRC_B_IMGFLAG	00000078		PRC_W_ATTMBX	0000007A
PRC_B_OUTFLAGS	0000012C		PRC_W_FLAGS	00000068
PRC_B_PROMPTLEN	000000F0		PRC_W_INPCHAN	00000064
PRC_C_LENGTH	00000534		PRC_W_ONLEVEL	0000006A
PRC_G_COMMANDS	00000133		PRC_W_OUTIFI	00000114
PRC_G_PROMPT	000000F4		PRC_W_OUTISI	00000116
PRC_K_LENGTH	00000534		PRC_W_OUTMBXCHN	000000CA
PRC_L_CURREKEY	00000048		PRC_W_OUTMBXREF	000000CE
PRC_L_EXMDEPADR	000000A8		PRC_W_OUTMBXSIZ	000000CC
PRC_L_EXTARG	00000094		PRC_W_PMPCTRL	000000F1
PRC_L_EXTBLOCK	0000008C		PRC_W_WAITIOSB	00000066
PRC_L_EXTCOD	0000009C		PTR_B_LEVEL	00000004
PRC_L_EXTHND	00000090		PTR_B_NUMBER	00000005
PRC_L_EXTPRM	00000098		PTR_B_VALUE	00000006
PRC_L_IDFLNK	000000BC		PTR_C_LENGTH	00000000
PRC_L_IMGACTSTS	00000080		PTR_K_BLANK	= 0000000C
PRC_L_INDCLOCK	0000007C		PTR_K_COMDQUAL	= 00000001
PRC_L_INDEPTH	0000005C		PTR_K_COMMA	= 00000000
PRC_L_INDFA	0000001C		PTR_K_ENDLINE	= 00000005
PRC_L_INDINPRAB	00000014		PTR_K_LENGTH	= 00000004
PRC_L_INDOUTRAB	00000018		PTR_K_PARAMETR	= 00000003
PRC_L_INPRAB	00000008		PTR_L_DESCR	= 00000000
PRC_L_LASTKEY	0000004C		PTR_L_ENTITY	= 00000008
PRC_L_LSTSTATUS	00000080		PTR_S_OFFSET	= 0000000C
PRC_L_ONCTLY	00000088		PTR_S_TERM	= 00000004
PRC_L_ONERROR	0000006C		PTR_S_TYPE	= 00000004
PRC_L_OUTOFBAND	00000084		PTR_S_VALUE	= 00000008
PRC_L_OUTRAB	0000000C			

PTR_V_OFFSET	= 000C0008
PTR_V_TERM	= 00000018
PTR_V_TYPE	= 0000001C
PTR_V_VALUE	= 00000000
RPW_B_LSTDESC	00000009
RPW_B_STRPARM	00000008
RPW_C_HDRSIZ	00000040
RPW_C_LENGTH	00000080
RPW_G_BITS	00000020
RPW_G_PRMLIM	00000040
RPW_K_HDRSIZ	00000040
RPW_K_LENGTH	00000080
RPW_L_DCLWRK	00000004
RPW_L_USERCTX	00000000
WRK_B_CMDOPT	FFFFFC3
WRK_B_MAXPARAM	FFFFFD0
WRK_B_MINPARAM	FFFFFD1
WRK_B_PARMCNT	FFFFFCF
WRK_B_PARMSUM	FFFFFC5
WRK_B_RECALLCNT	FFFFFC4
WRK_B_VALLEV	FFFFFC2
WRK_B_VERBTYP	FFFFF486
WRK_C_LENGTH	FFFFF492
WRK_G_BUFFER	FFFFF896
WRK_G_INPBUF	FFFFF9B6
WRK_G_RESULT	FFFFF486
WRK_L_CHARPTR	FFFFF48E
WRK_L_DISALLOW	FFFFFE6
WRK_L_ERRORRTN	FFFFF9AE
WRK_L_EXPANDPTR	FFFFF486
WRK_L_IMAGE	FFFFFE2
WRK_L_MARKPTR	FFFFF48A
WRK_L_PAROUT	FFFFFD2
WRK_L_PMPTADDR	FFFFF9A2
WRK_L_PROMPTRTN	FFFFF9A6
WRK_L_PROPTR	FFFFFC6
WRK_L_QUABLK	FFFFFC9A
WRK_L_READRTN	FFFFF9AA
WRK_L_RECALLPTR	FFFFFEA
WRK_L_RSLEND	FFFFFB6
WRK_L_RSLNXT	FFFFFB8A
WRK_L_SAVAP	FFFFFF8
WRK_L_SAVFP	FFFFFFC
WRK_L_SAVSP	FFFFFF4
WRK_L_SIGNALRTN	FFFFFD6
WRK_L_SPECRTN	FFFFF9B2
WRK_L_TAB_VEC	FFFFFD8E
WRK_L_VERB	FFFFFB8E
WRK_W_FLAGS	FFFFFF0
WRK_W_FLAGS2	FFFFFF2
WRK_W_IMGCHAN	FFFFFEE
WRK_W_PMPTLEN	FFFFF99E

```
-----+
! Psect synopsis !
-----+
```

PSECT name

```
-----+
. ABS .
$ABSS
DCL$ZCODE
```

Allocation

	PSEG No.	Attributes
00000000 (0.)	00 (0.)	NOPIC USR CON
FFFFFFFFFF (0.)	01 (1.)	NOPIC USR CON
000000115 (277.)	02 (2.)	NOPIC USR CON

ABS	LCL NOSHR	NOEXE NORD	NOWRT NOVEC BYTE
CON	LCL NOSHR	EXE RD	WRT NOVEC BYTE
REL	LCL NOSHR	EXE RD	NOWRT NOVEC BYTE

```
-----+
! Performance indicators !
-----+
```

Phase

Page faults	CPU Time	Elapsed Time
Initialization	00:00:00.11	00:00:00.42
Command processing	00:00:00.81	00:00:05.05
Pass 1	00:00:09.13	00:00:22.27
Symbol table sort	00:00:01.20	00:00:02.81
Pass 2	00:00:01.69	00:00:06.40
Symbol table output	00:00:00.16	00:00:00.68
Psect synopsis output	00:00:00.02	00:00:00.02
Cross-reference output	00:00:00.00	00:00:00.00
Assembler run totals	00:00:13.14	00:00:37.67

The working set limit was 1200 pages.

45492 bytes (89 pages) of virtual memory were used to buffer the intermediate code.

There were 50 pages of symbol table space allocated to hold 815 non-local and 18 local symbols.

415 source lines were read in Pass 1, producing 13 object records in Pass 2.

34 pages of virtual memory were used to define 20 macros.

```
-----+
! Macro library statistics !
-----+
```

Macro library name

```
-----+
-$255$DUA28:[SYSLIB]SYSBLDMMLB.MLB;1
-$255$DUA28:[DCL.OBJ]DCL.MLB;1
-$255$DUA28:[SYS.OBJ]LIB.MLB;1
-$255$DUA28:[SYSLIB]STARLET.MLB;2
TOTALS (all libraries)
```

Macros defined

0
8
0
4
12

956 GETS were required to define 12 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:RPSUB/OBJ=OBJ\$:RPSUB MSRC\$:RPSUB/UPDATE=(ENH\$:RPSUB)+EXECMLS/LIB+LIBS:DCL/LIB+SYSSLIBRARY:SYSBLDMMLB/LIB

0073 AH-BT13A-SE
VAX/VMS V4.0

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